

DOCKET NO.: CRNT-0016



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Paul A. Kline and Sergey L. Dickey

Confirmation No.: **1402**

Application No.: **09/837,972**

Group Art Unit: **2686**

Filing Date: **April 19, 2001**

Examiner: **Joy Kimberly Contee**

For: **METHOD AND APPARATUS FOR INTERFACING RF SIGNALS TO
MEDIUM VOLTAGE POWER LINES**

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

SUPPLMENTAL INFORMATION DISCLOSURE STATEMENT

Pursuant to 37 CFR § 1.56 and in accordance with 37 CFR §§ 1.97-1.98, information relating to the above-identified application is hereby disclosed. Inclusion of information in this statement is not to be construed as an admission that this information is material as that term is defined in 37 CFR § 1.56(b).

- ☐ In accordance with § 1.97(b), since this Information Disclosure Statement is being filed either within three months of the filing date of the above-identified application, within three months of the date of entry into the national stage of the above identified application as set forth in § 1.491, before the mailing date of a first Office Action on the merits of the above-identified application, or before the mailing date of a first Office Action after the filing of request for continued examination under § 1.114, no additional fee is required.

- ☒ In accordance with § 1.97(c), this Information Disclosure Statement is being filed after the period set forth in § 1.97(b) above but before the mailing date of either a Final Action under § 1.116 or a Notice of Allowance under § 1.311, or before an action that otherwise closes prosecution in the application, therefore:
- ☐ Certification in Accordance with § 1.97(e) is attached; or
- ☒ The fee of **\$180.00** as set forth in § 1.17(p) is attached.
- ☐ In accordance with § 1.97(d), this Information Disclosure Statement is being filed after the mailing date of either a Final Action under § 1.113 or a Notice of Allowance under § 1.311 but before, or simultaneously with, the payment of the Issue Fee, therefore included are: Certification in Accordance with § 1.97(e); and the submission fee of **\$180.00** as set forth in § 1.17(p).
- ☒ Copies of reference numbers 104 - 134 listed on the attached Form PTO-1449 are enclosed herewith.
- ☐ Copies of reference numbers on the attached Form PTO 1449 are not required to be submitted pursuant to 37 CFR § 1.98(a)(2)(i).
- ☐ Copies of references - are not being submitted because they were previously cited by or submitted to the U.S. Patent and Trademark Office in patent application number , filed for which a claim for priority under 35 U.S.C. § 120 has been made in the instant application.

There are no listed references which are not in the English language.

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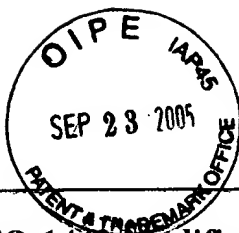
No. 50-0687.

Date: September 23, 2005

A handwritten signature in dark ink, appearing to read "Melvin L. Barnes, Jr.", written over a horizontal line.

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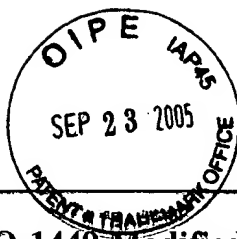
Sheet 1 of 9

Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office	Docket No. CRNT-0016	Serial No. 09/837,972
	Applicant Kline et al.	Confirmation No. 1402
	Filing Date April 19, 2001	Group 2686

U. S. PATENT DOCUMENTS

Examiner's Initials		Document No.	Date	Name	Class	Subclass
	1	3,702,460	11/07/72	Blose	340	150
	2	3,810,096	05/07/74	Kabat et al.	340	147 R
	3	3,895,370	07/15/75	Valentini	340	310
	4	3,942,170	03/02/76	Whyte	340	310
	5	3,962,547	06/08/76	Pattantyus-Abraham	179	2.5 R
	6	4,004,110	01/18/77	Whyte	340	310.07
	7	4,016,429	04/05/77	Vercellotti et al.	307	149
	8	4,057,793	11/08/77	Johnson et al.	340	310 R
	9	4,142,178	02/27/79	Whyte et al.	340	310
	10	4,188,619	02/12/80	Perkins	340	310 R
	11	4,254,402	03/03/81	Perkins	340	310 R
	12	4,323,882	04/06/82	Gajjer	340	310 R
	13	4,433,284	02/21/84	Perkins	323	361
	14	4,481,501	11/06/84	Perkins	340	310
	15	4,569,045	02/04/86	Schieble et al.	370	85
	16	4,675,648	06/23/87	Roth et al.	340	310.07
	17	4,686,382	08/11/87	Shuey	307	149
	18	4,697,166	09/29/87	Warnagiris et al.	340	310 R
	19	4,745,391	05/17/88	Gajjar	340	310.02
	20	4,746,897	05/24/88	Shuey	340	310 R
	21	4,973,940	11/27/90	Sakai et al.	340	310 R

EXAMINER	DATE CONSIDERED
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	22	5,210,519	05/11/93	Moore	340	310
	23	5,257,006	10/26/93	Graham et al.	340	310A
	24	5,351,272	09/27/94	Abraham	375	38
	25	5,485,040	01/16/96	Sutterlin	307	3
	26	5,497,142	03/05/96	Chaffanjon	340	310.06
	27	5,559,377	09/24/96	Abraham	307	104
	28	5,592,482	01/07/97	Abraham	348	8
	29	5,625,863	04/29/97	Abraham	455	3.3
	30	5,684,450	11/04/97	Brown	340	310.02
	31	5,694,108	12/02/97	Shuey	340	310.01
	32	5,705,974	01/06/98	Patel et al.	340	310.08
	33	5,717,685	02/10/98	Abraham	370	30
	34	5,770,996	06/23/98	Severson et al.	340	310.08
	35	5,818,127	10/06/98	Abraham	307	106
	36	5,856,776	01/05/99	Armstrong et al.	340	310.01
	37	5,864,284	01/26/99	Sanderson et al.	340	310.01
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	43	5,994,998	11/30/99	Fisher et al.	340	310.01
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	51	6,255,935	07/03/01	Lehmann et al.	340	310.07
	52	6,282,405 B1	08/28/01	Brown	725	79
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	56	6,452,482 B1	09/17/02	Cern	340	310.01
	57	6,515,485	02/04/03	Bullock et al.	324	601
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	61	6,686,832	02/03/04	Abraham	340	310.01
	62	6,753,742	06/22/04	Kim et al.	333	24R
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	67	2001/0054953 A1	12/27/01	Kline	340	310.01
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	72	2002/0110310 A1	08/15/02	Kline	385	15
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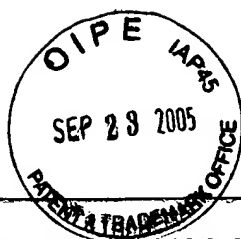


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	86	2003/0234713 A1	12/25/03	Pridmore, Jr. et al.	336	82
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	88	2004/0032320 A1	02/19/04	Zalitzky et al.	340	310.01
	89	2004/0056734 A1	03/25/04	Davidow	333	100
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	93	2004/0113756 A1	06/17/04	Mollenkopf	340	310.01
	94	2004/0113757 A1	06/17/04	White, II et al.	340	310.01
	95	2004/0135676 A1	07/15/04	Berkman et al.	340	310.01
	96	2004/0142599 A1	07/22/04	Cope et al.	439	620
	97	2004/0183619 A1	09/23/04	Sugg	333	24R
	98	2004/0196144 A1	10/07/04	Crenshaw et al.	340	310.01
	99	2004/0223617 A1	11/11/04	Corcoran et al.	380	266
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Examiner's Initials		Document No.	Date	Country	Translation	
					YES	NO
	104	100 12 235 C2	12/20/01	DE	X abstract & Ind. Claim	
	105	101 00 181 A1	07/18/02	DE	X abstract & Ind. Claim	
	106	101 19 039 A1	12/05/02	DE	X abstract & Ind. Claim	
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	111	0 948 143 A2	10/06/99	EP	X abstract	
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	118	03/040732 A2	05/15/03	WO	X abstract	
	119	2004/021600A1	03/11/04	WO	X abstract	

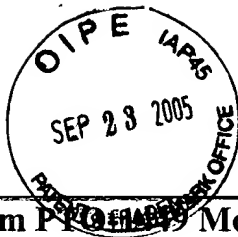
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Examiner's Initials	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)	
	120	"Signalling on Low-Voltage Electrical Installations in the Frequency Band 3kHz to 148.5kHz-Part 4: Filters at the Interface of the Indoor and Outdoor Electricity Network", <i>CLC SC 105A (Secretariat)</i> May 1992, 62, 1-11
	121	"Intellon Corporation Test Summary for Transformerless Coupler Study", <i>Intellon No News Wires</i> , December 24, 1998, DOT/NHTSA Order No. DTNH22-98-P-07632, pp 1-18
	122	"Centralized Commercial Building Applications with the Lonworks ® PLT-21 Power Line Transceiver", <i>Lonworks Engineering Bulletin</i> , Echelon, April 1997, pp 1-22
	123	"EMETCON Automated Distribution System: Communications Guide", <i>Westinghouse ABB Power T & D Company Technical Manual 42-6001A</i> , September 1989, 55 pages
	124	Chang, S.S.L., "Power-Line Carrier", <i>Fundamentals Handbook of Electrical and Computer Engineering</i> , Volume II-Communication, Control, Devices and Systems, John Wiley & Sons, New York, 1983, 617-627
	125	Coakley, N.G. et al., "Real-Time Control of a Servosystem Using the Inverter-Fed Power Lines to Communicate Sensor Feedback", <i>IEEE Transactions on Industrial Electronics</i> , 1999, 46(2), 360-369
	126	Esmailian, T. et al., "A Discrete Multitone Power Line Communication System", <i>Department of Electrical and Computer Engineering</i> , University of Toronto, Ontario Canada, 2000 IEEE, pp 2953-2956
	127	Kawamura, A. et al., "Autonomous Decentralized Manufacturing System Using High-speed Network with Inductive Transmission of Data and Power", <i>IEEE</i> , 1996, 940-945
	128	Kim, W-O., et al., "A Control Network Architecture Based on EIA-709.1 Protocol for Power Line Data Communications", <i>IEEE Transactions on Consumer Electronics</i> , 2002, 48(3), 650-655
	129	Lim, C.K. et al., "Development of a Test Bed for High-Speed Power Line Communications", School of Electrical and Electronic Engineering, Nanyang Technological University, Singapore, <i>IEEE</i> , 2000, 451-456
	130	Lokken, G. et al., "The Proposed Wisconsin electric Power Company Load Management System Using Power Line Carrier Over Distribution Lines", 1976 <i>National Telecommunications Conference, IEEE</i> , 1976, 2.2-12.2-3
	131	Marthe, E. et al., "Indoor Radiated Emission Associated with Power Line Communication Systems", <i>Swiss Federal Institute of Technology Power Systems Laboratory IEEE</i> , 2001, 517-520

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Form PTO-1487 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office		Docket No. CRNT-0016-US	Serial No. 09/837,972
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Examiner's Initials	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)		
	132	Naredo, J.L. et al., "Design of Power Line Carrier Systems on Multitransposed Delta Transmission Lines", <i>IEEE Transactions on Power Delivery</i> , 1991, 6(3), 952-958	
	133	Nichols, K., "Build a Pair of Line-Carrier Modems", <i>CRC Electronics-Radio Electronics</i> , 1988, 87-91	
	134	Okazaki, H, et al., "A Transmitting, and Receiving Method for CDMA Communications Over Indoor Electrical Power Lines", <i>IEEE</i> , 1998, pp VI-522-VI-528	

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